Attorney Docket No.: 67,200-699

IN THE CLAIMS

- rapid thermal anneal system 1. (Original) Α reflective index monitor, comprising:
 - a chamber wall defining a chamber interior;
 - a reflector plate provided in said chamber interior;
- a plurality of lamps provided in said chamber interior above said reflector plate;
 - at least one monitor opening provided in said chamber wall;
- a reflective index monitor provided in said at least one monitor opening, respectively, for monitoring a reflective index of said reflector plate;
- a process controller operably connected to said reflective index monitor and said plurality of lamps; and

wherein said reflective index monitor sends a signal to said process controller and said process controller terminates operation of said plurality of lamps when said reflective index of said reflector plate deviates from a reflective index of a control value.

(Original) The rapid thermal anneal system of claim 1 2. wherein said at least one monitor opening comprises a plurality of monitor openings.

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- 3. (Original) The rapid thermal anneal system of claim 1 further comprising an alarm operably connected to said at least one reflective index monitor for receiving a signal from said reflective index monitor when said reflective index of said reflector plate deviates from said reflective index of said control value.
- 4. (Original) The rapid thermal anneal system of claim 3 wherein said at least one monitor opening comprises a plurality of monitor openings.
- 5. (Currently amended) A rapid thermal anneal system with reflective index monitor, comprising:
 - a chamber wall defining a chamber interior;
 - a reflector plate provided in said chamber interior;
- a plurality of lamps provided in said chamber interior above said reflector plate;
 - at least one monitor opening provided in said chamber wall;
- a reflective index monitor provided in said at least one monitor opening, respectively, in a substantially elevated position with respect to said reflector plate for monitoring a reflective index of said reflector plate;

alarm operably connected to said reflective index monitor; and

wherein said reflective index monitor sends a signal to said alarm when said reflective index of said reflector plate deviates from a reflective index of a control value.

- (Original) The rapid thermal anneal system of claim 5 wherein said at least one monitor opening comprises a plurality of monitor openings.
- (Withdrawn) A method for detecting contamination on a reflector plate situated in a rapid thermal anneal chamber, comprising the steps of:

providing a rapid thermal anneal chamber comprising a chamber wall and a reflector plate in said chamber wall;

providing at least one monitor opening in said chamber wall;

providing a reflective index monitor in said at least one monitor opening, respectively, for measuring a reflective index of said reflector plate; and

sending a signal to a process controller when said reflective index deviates from a reflective index of a control value.

Fu-Su Lee, et al

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- 8. (Withdrawn) The method of claim 7 wherein said at least one monitor opening comprises a plurality of monitor openings.
- 9. (Withdrawn) The method of claim 7 further comprising the step of providing an alarm operably connected to said reflective index monitor and sending a signal to said alarm when said reflective index deviates from said reflective index of said control value.
- 10. (Withdrawn) The method of claim 9 wherein said at least one monitor opening comprises a plurality of monitor openings.